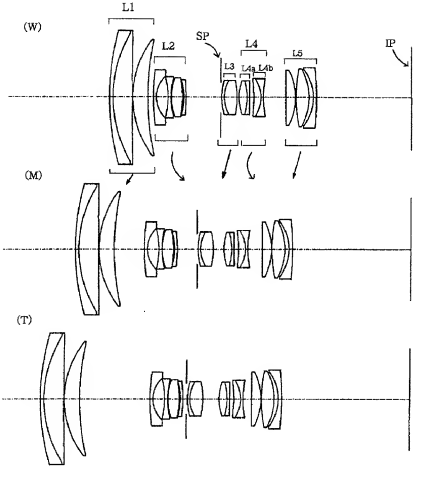

FIG. 1

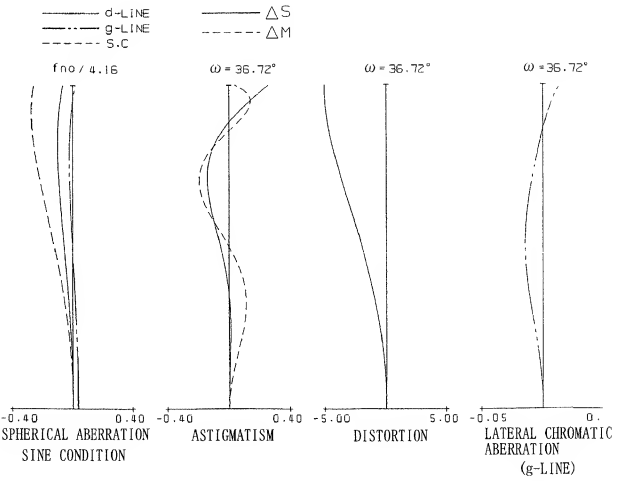
f = 29.00
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 4.16
ω = 36.72°
ω = 36.72°
ω = 36.72°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 2

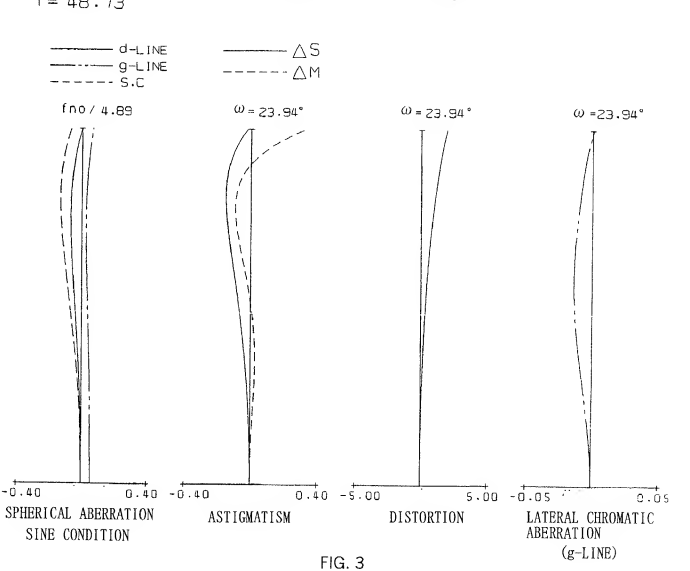
f = 48.73
d-LINE
g-LINE
S.C
△S
△M
fno / 4.89
ω = 23.94°
ω = 23.94°
ω = 23.94°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.05
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 3

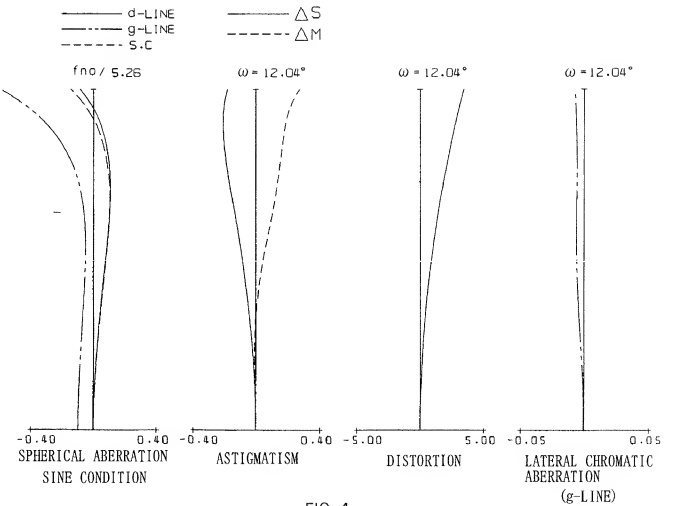

FIG. 4

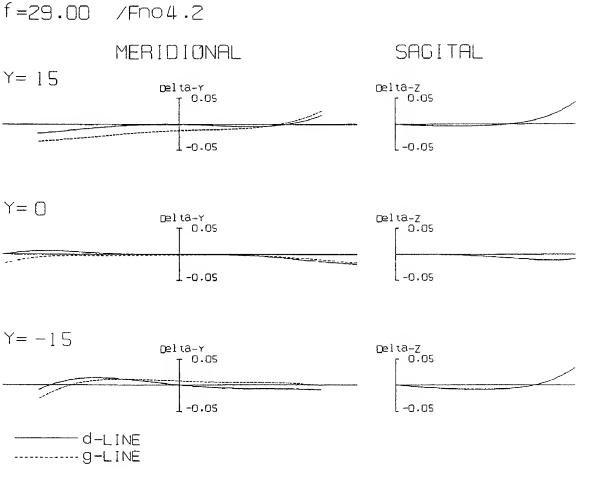
f=29.00 /Fno4.2
MERIDIONAL
SAGITAL
Y= 15
Y= 0
Y= -15
Delta-Y
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 5

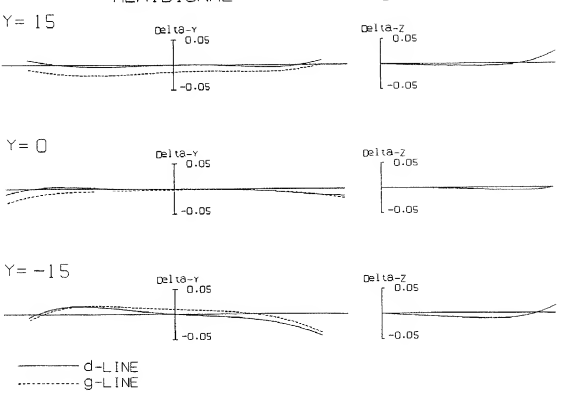
f=48.73 /Fno4.9
MERIDIONAL
SAGITAL
Y= 15
Y= 0
Y= -15
Delta-Y
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 6

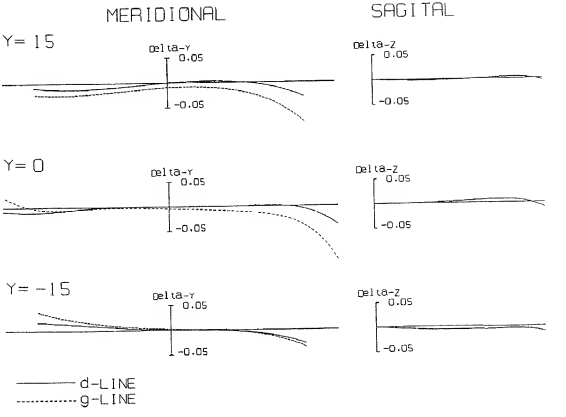
f=101.44 /Fno5.2
MERIDIONAL
SAGITAL
Y= 15
Y= 0
Y= -15
Delta-Y
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 7

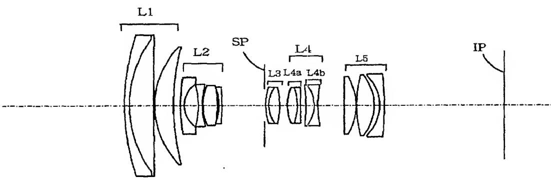

FIG. 8

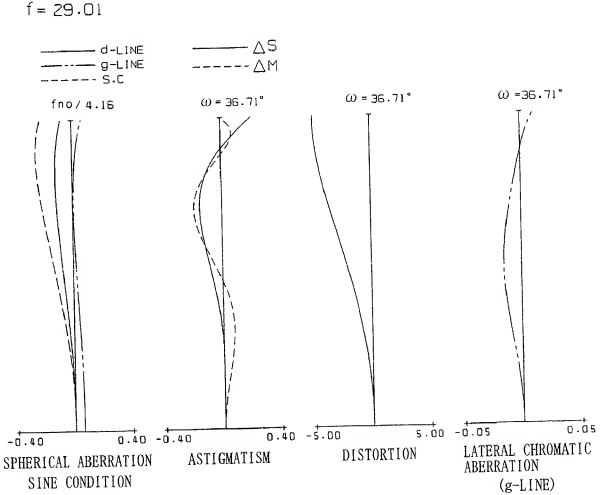
f = 29.01
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 4.16
ω = 36.71°
ω = 36.71°
ω = 36.71°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.05
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 9

f = 48.50

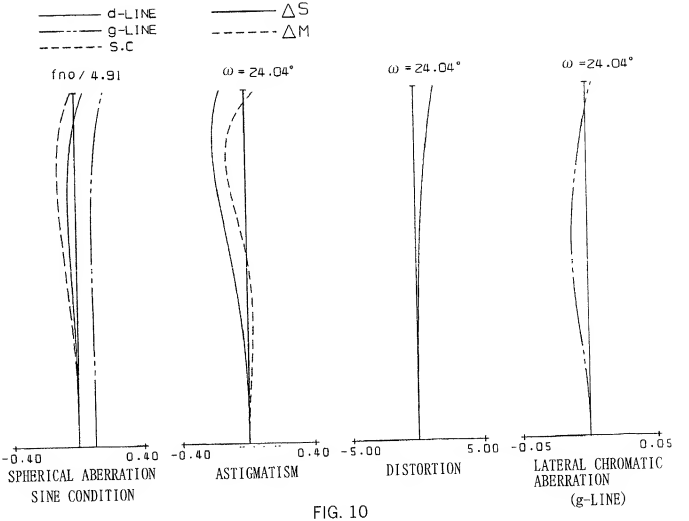
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 4.91
ω = 24.04°
ω = 24.04°
ω = 24.04°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.05
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC ABERRATION
(g-LINE)

FIG. 10

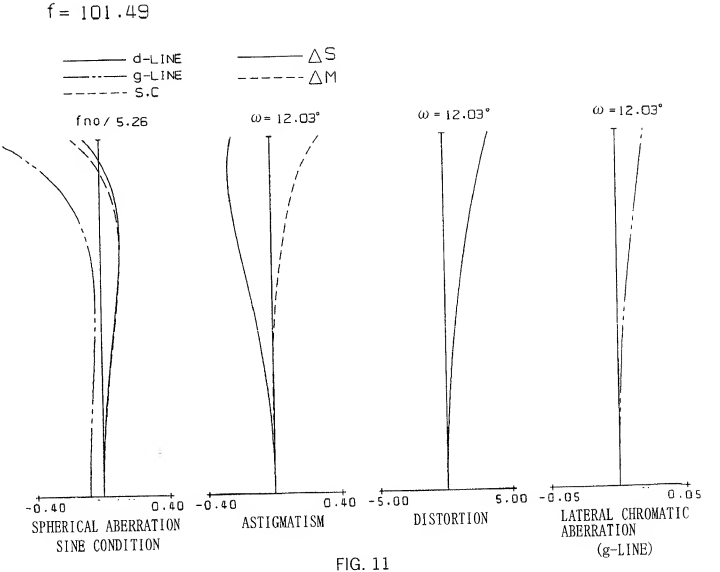
f = 101.49
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 5.26
ω = 12.03°
ω = 12.03°
ω = 12.03°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.05
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 11

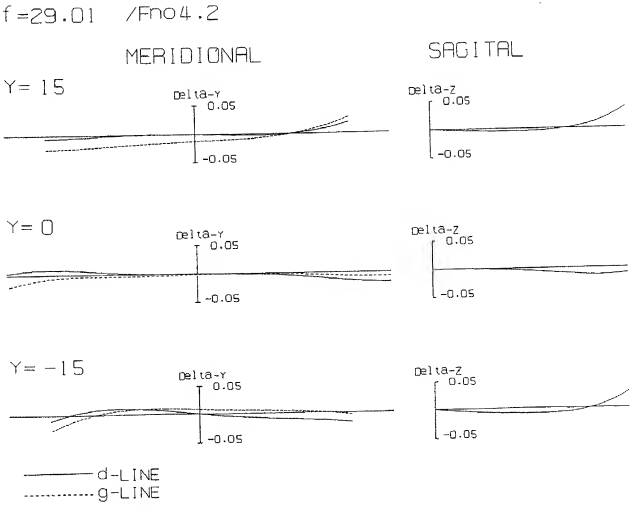
f=29.01 /Fno4.2
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 12

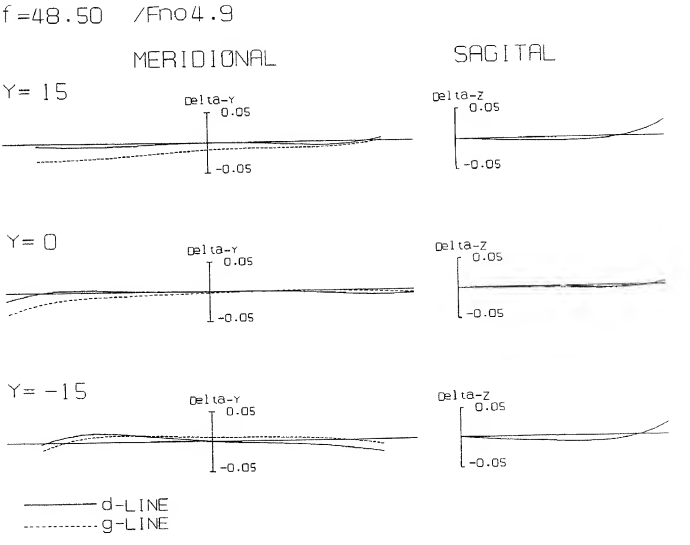

FIG. 13

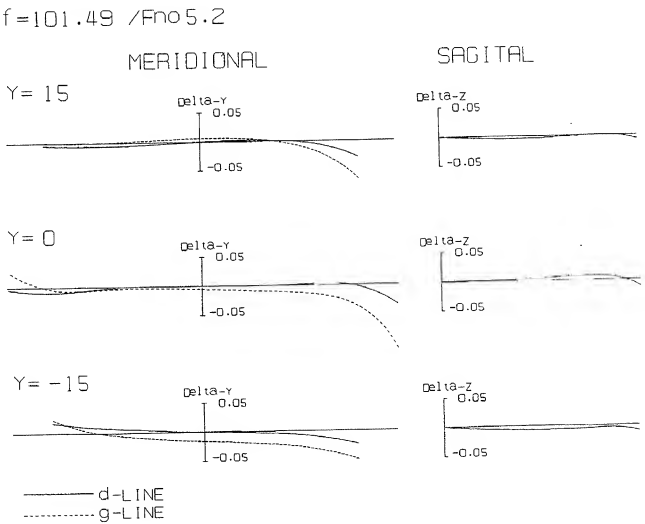
f=101.49 /Fno5.2
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 14

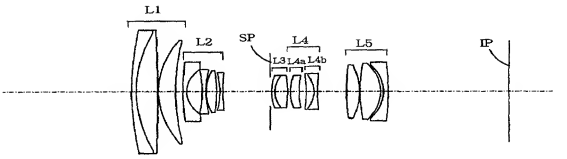

FIG. 15

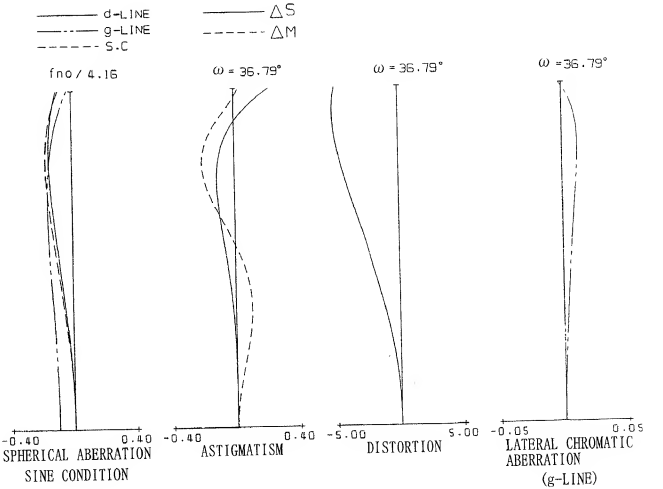
f = 28.93
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 4.16
ω = 36.79°
ω = 36.79°
ω = 36.79°
-0.40
0.40
SPHERICAL ABERRATION
SINE CONDITION
-0.40
0.40
ASTIGMATISM
-5.00
5.00
DISTORTION
-0.05
0.05
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 16

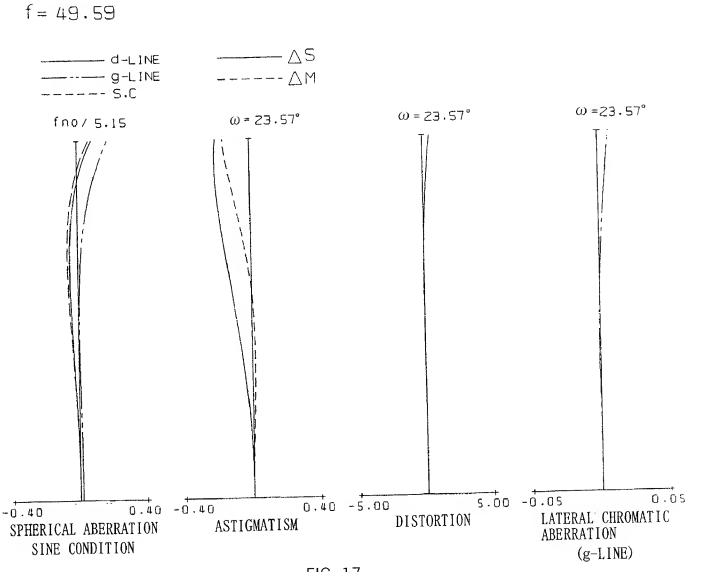
f = 49.59
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 5.15
ω = 23.57°
ω = 23.57°
ω = 23.57°
-0.40
0.40
SPHERICAL ABERRATION
SINE CONDITION
-0.40
0.40
ASTIGMATISM
-5.00
5.00
DISTORTION
-0.05
0.05
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 17

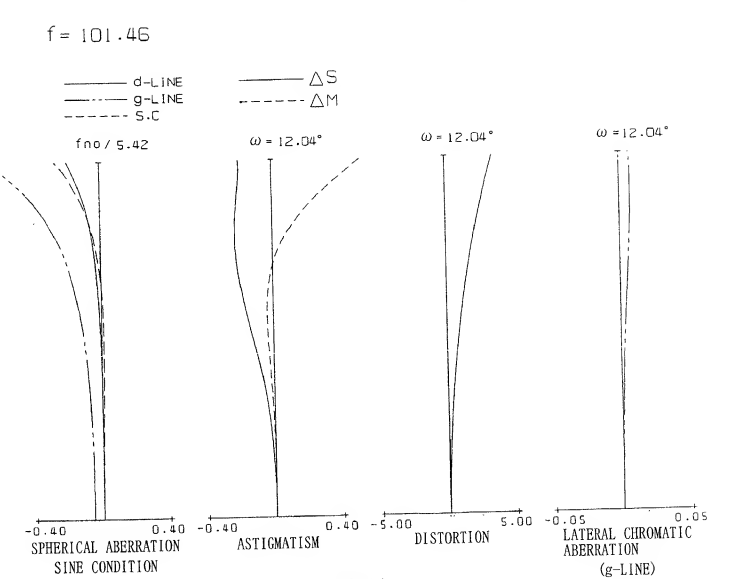

FIG. 18

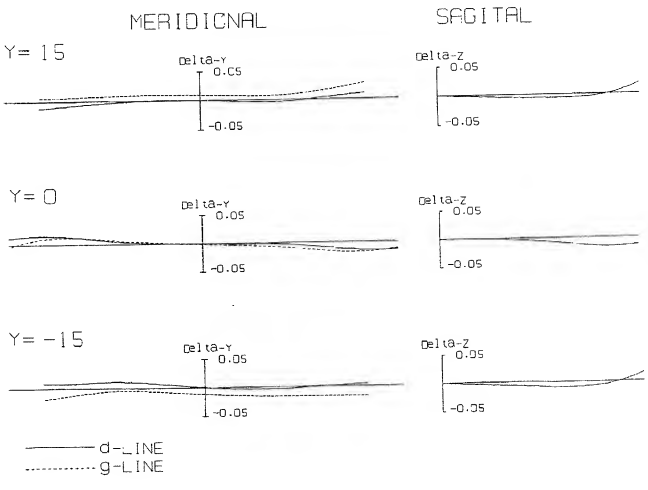
f=28.93 /Fno4.2
MERIDICNAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 19

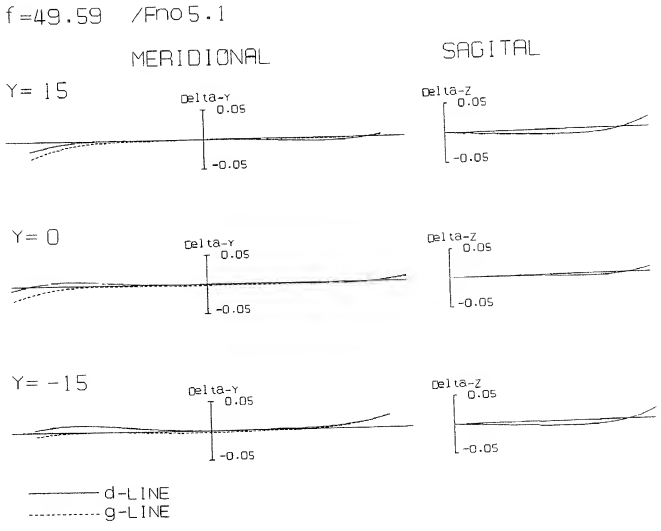
f=49.59 /Fno5.1
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 20

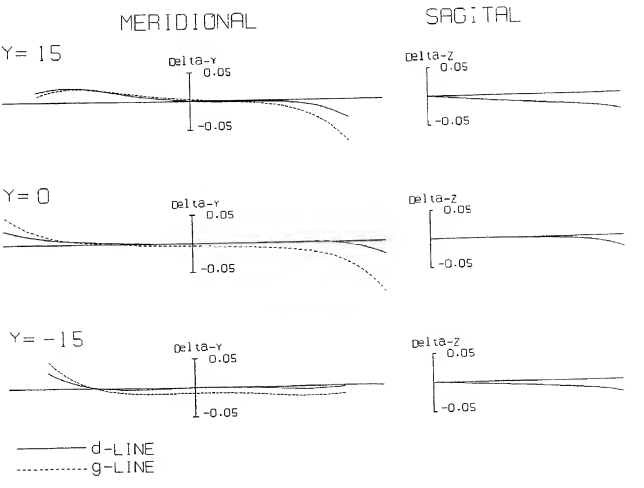

FIG. 21

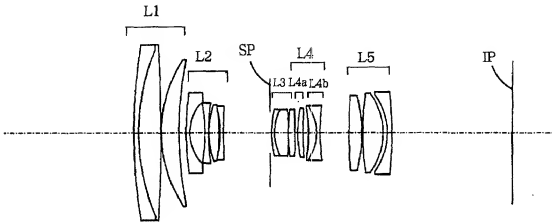

FIG. 22

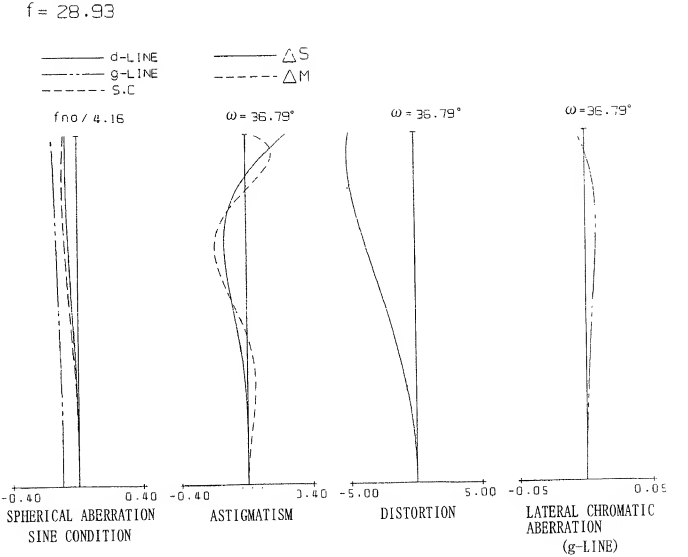
f = 28.93
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 4.16
ω = 36.79°
ω = 36.79°
ω = 36.79°
-0.40
0.40
-0.40
0.40
-5.00
5.00
-0.05
0.05
SPHERICAL ABERRATION
SINE CONDITION
ASTIGMATISM
DISTORTION
LATERAL CHROMATIC
ABERRATION
(g-LINE)

FIG. 23

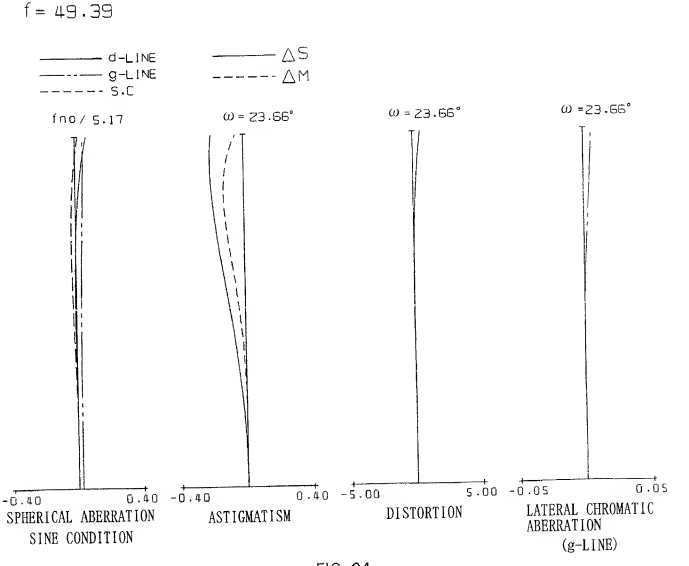
f = 49.39
d-LINE
g-LINE
S.C
ΔS
ΔM
fno / 5.17
ω = 23.66°
ω = 23.66°
ω = 23.66°
-0.40
0.40
SPHERICAL ABERRATION
SINE CONDITION
-0.40
0.40
ASTIGMATISM
-5.00
5.00
DISTORTION
-0.05
0.05
LATERAL CHROMATIC ABERRATION
(g-LINE)

FIG. 24

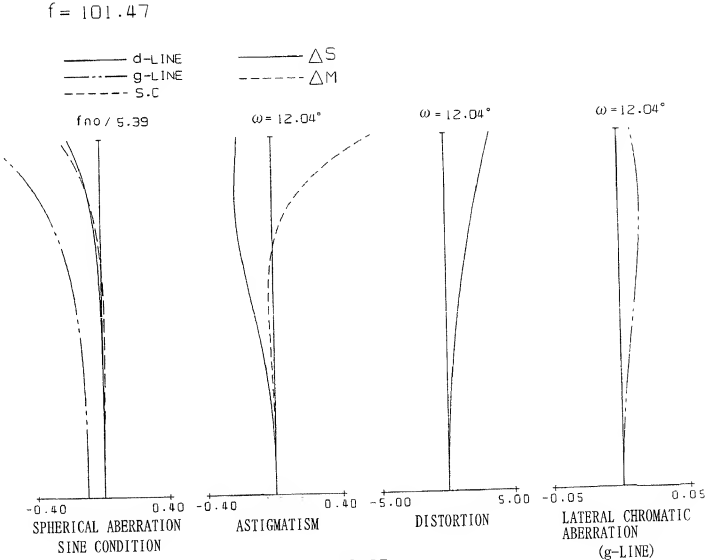

FIG. 25

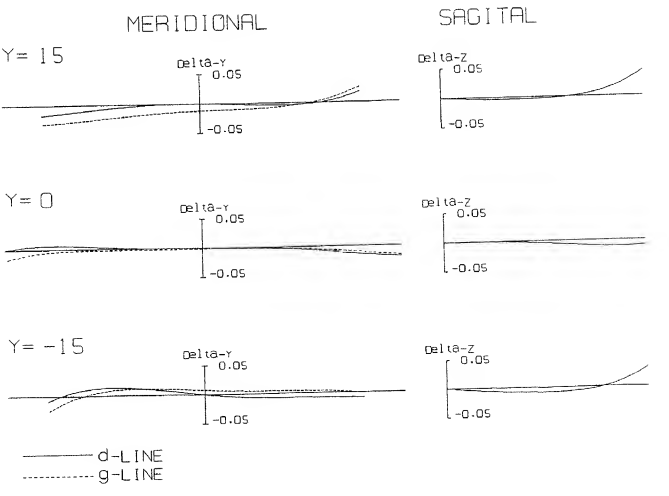
f=29.00 /Fno4.2
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 26

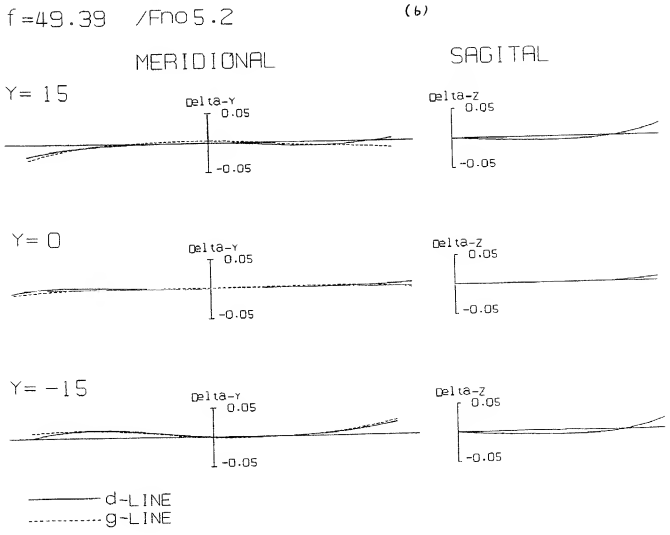
f=49.39 /Fno 5.2
(b)
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 27

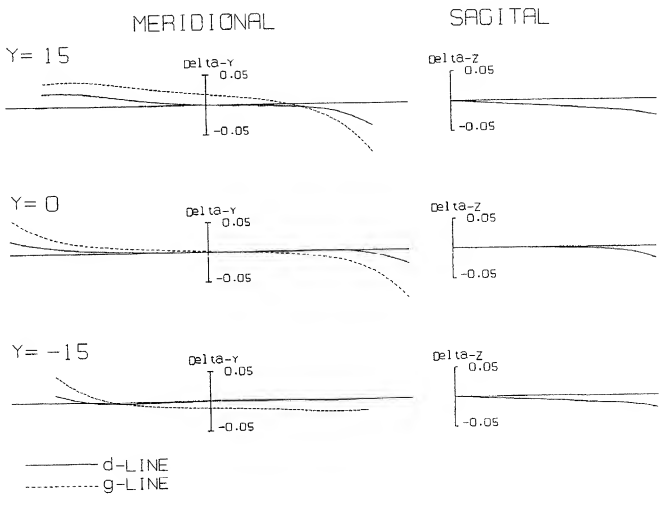
f=101.47 /Fno5.4
MERIDIONAL
SAGITAL
Y= 15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= 0
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
Y= -15
Delta-Y
0.05
-0.05
Delta-Z
0.05
-0.05
d-LINE
g-LINE

FIG. 28

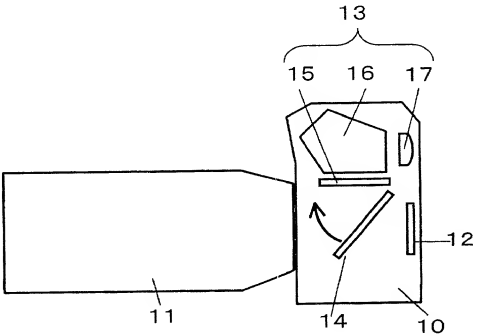

FIG. 29